

(19) World Intellectual Property
Organization
International Bureau



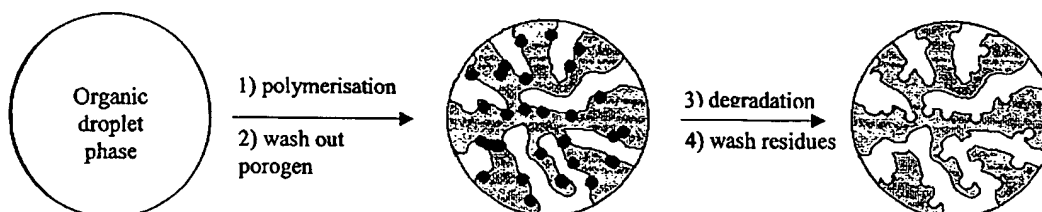
(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/003043 A1

- (51) International Patent Classification⁷: **C08F 293/00**, 2/18, 4/40, C08J 9/26, G01N 30/48, C08G 83/00
- (74) Agents: **KILANDER**, Annika et al.; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE).
- (21) International Application Number:
PCT/SE2003/001017
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 17 June 2003 (17.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0202016-2 27 June 2002 (27.06.2002) SE
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **AMERSHAM BIOSCIENCES AB** [SE/SE]; Patents Department, Björkgatan 30, S-751 84 Uppsala (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **BUSSON, Philippe** [FR/SE]; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE). **PALMGREN, Ronnie** [SE/SE]; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE). **MORRISON, Michael** [GB/SE]; Östervägen 8, S-169 52 Solna (SE).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: POLYMERIC SUPPORT HAVING NOVEL PORE STRUCTURES



(57) Abstract: The invention is a method of producing a cross-linked polymeric support having a multimodal pore structure, which comprises providing a degradable initiator molecule; providing an organic phase comprising said initiator molecule, radically polymerisable monomers and a porogen in a solvent; providing an aqueous phase comprising a transition metal catalyst; suspension polymerisation of the organic phase by adding a ligand, co-ordinating to the transition metal in the aqueous phase to produce a cross-linked polymeric support having a primary pore structure and comprising initiator molecule; and subjecting the support obtained to degrading conditions to remove the initiator molecule from within the support to produce a cross-linked polymeric support having a secondary pore structure in addition to the primary pore structure.

WO 2004/003043 A1